# 2013 Montana Government IT Conference

## Tech Sessions

## Wednesday December 11, 2013

**Application Development: "Responsive Design for Web Applications"**

Presenters: **Kelly Kallenbach (Computer Application Engineer)**

The rapid growth of mobile computing has brought about an unprecedented opportunity to connect users with information they need. One obstacle that comes with this opportunity is displaying user's data in an efficient and effective way. Responsive design methodology attempts to tackle this obstacle by combining media queries and CSS to produce user centered, informative sites regardless of the device used. This session will cover desktop and mobile differences, CSS/Javascript integration, and strategies to overcome common mobile issues.

**Application Development: "Java Frameworks: ADF vs. Wicket"**

Presenters: **KC Lesmeister (Computer Application Engineer), Kelly Kallenbach (Computer Application Engineer)**

With over 1 billion desktops using Java and Java's portability to almost any environment, it's easy to see why many developers choose Java to develop their code. Java's open-source roots can also cause some headache because anyone can create a Java development framework. Due to the numerous frameworks available, it can be difficult to select the right one for your needs. In this session we will be discussing the process of choosing a Java framework that works best for your programming needs. We will specifically be discussing the ADF and Wicket frameworks and what advantages and disadvantages each have.

**Application Development: "Utilizing Microsoft e-Discovery Tools the State Has"**

Presenter: **Julian Soh, Office Solutions Specialist – State and Local Government, Microsoft**

The latest versions of Microsoft Exchange and SharePoint have significant advances in compliance capabilities and tools. This session will provide an overview of these capabilities which the State of Montana already owns as part of the Enterprise Agreement. Compliance-specific topics included in this session are:

- Auditing
- Retention
- eDiscovery
- Data Leakage Prevention
- In-Place Hold and immutability
- Case Management
- Federated and Proximity Search

## Thursday December 12, 2013

**Application Development: "Relational Database Normalization"**

Presenters: **McKinley Gunter (Lead Computer Application Engineer)**

Database normalization is the process of organizing fields and tables of a relational database to minimize redundancy and dependency. Failure to normalize a database design can lead to data integrity issues. This can become a huge stumbling block when system enhancements are planned due to new or changed business processes, integration with other systems is required, or when the system needs to be replaced. This session focuses on the forms and rules for database normalization to achieve a good structure that mitigates "garbage in, garbage out" data.

**Application Development: "Replacing Legacy Oracle Applications" Part 1**

Presenters: **Barry Fox (Computer Guy), McKinley Gunter (Lead Computer Application Engineer), KC Lesmeister (Computer Application Engineer)**

Twenty years ago software development moved into an era of database backed rich graphical development systems termed Fourth Generation Languages (4GL's.) Oracle Forms and Reports became one of the premier 4GL development tools with great usage within private industry as well as government. There has been a subsequent movement of application development to web based systems. In the meantime, there are thousands of Oracle Forms and Report applications that continue to run but are reaching end of life. The session will discuss issues related to the replacement of legacy Oracle Forms and Reports applications followed by a case study of an Oracle Forms replacement project undertaken by the State of Montana.

**Application Development: "Replacing Legacy Oracle Applications" Part 2**

Presenters: **Barry Fox (Computer Guy), McKinley Gunter (Lead Computer Application Engineer), KC Lesmeister (Computer Application Engineer)**

Twenty years ago software development moved into an era of database backed rich graphical development systems termed Fourth Generation Languages (4GL's.) Oracle Forms and Reports became one of the premier 4GL development tools with great usage within private industry as well as government. There has been a subsequent movement of application development to web based systems. In the meantime, there are thousands of Oracle Forms and Report applications that continue to run but are reaching end of life. The session will discuss issues related to the replacement of legacy Oracle Forms and Reports applications followed by a case study of an Oracle Forms replacement project undertaken by the State of Montana.